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L7: Entry 26 of 27

File: DWPI

Aug 8, 2002

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TITLE: Controlled release insect repellent device for use with e.g. food or tobacco - comprises substrate treated with composition comprising repellent compound, e.g. essential oil, and controlled release agent such as latex resin

Basic Abstract Text (1):

A controlled release insect repellent device, for repelling insects from food, tobacco or other consumable items, comprises an insect repellent composition (IRC) contacting a substrate. The IRC comprises: (a) a repellent compound (RC) selected from essential oils and their active ingredients; (b) a controlled-release agent (CRA), and optionally (c) a solvent. The RC is present in amounts such that when it is released it is non-toxic to humans and animals. The CRA controls the rate of release of the RC from the device.

Basic Abstract Text (3):

USE- The device may be used to repel insects (including mites, moths, weevils, beetles and house flies) from food, tobacco and other consumable items. It may also be used with non-consumable items, such as textiles and fur. The device is typically in direct contact with the consumable material (e.g. in or as a box) or in the vicinity of the consumable material (e.g. in a cupboard).

Equivalent Abstract Text (1):

A controlled release insect repellent device, for repelling insects from food, tobacco or other consumable items, comprises an insect repellent composition (IRC) contacting a substrate. The IRC comprises: (a) a repellent compound (RC) selected from essential oils and their active ingredients; (b) a controlled-release agent (CRA), and optionally (c) a solvent. The RC is present in amounts such that when it is released it is non-toxic to humans and animals. The CRA controls the rate of release of the RC from the device.

Equivalent Abstract Text (3):

USE- The device may be used to repel insects (including mites, moths, weevils, beetles and house flies) from food, tobacco and other consumable items. It may also be used with non-consumable items, such as textiles and fur. The device is typically in direct contact with the consumable material (e.g. in or as a box) or in the vicinity of the consumable material (e.g. in a cupboard).

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L7: Entry 5 of 27

File: USPT

Nov 18, 1997

DOCUMENT-IDENTIFIER: US 5688509 A

TITLE: Controlled-release insect repellent deviceAbstract Text (1):

The present invention provides a controlled-release insect repellent device and a method for repelling insects from food, tobacco, or other consumable items. The controlled-release insect repellent device comprises an insect repellent composition contacting a substrate. The controlled-release insect repellent device is prepared by a method comprising applying the insect repellent composition to the substrate wherein the repellent compound used is present in the controlled-release insect repellent device in an amount such that when it is released it is non-toxic to humans and animals. The method for repelling insects comprises placing the controlled-release insect repellent device in an area where insects may be present. The insect repellent composition comprises a repellent compound and a controlled-release agent, the controlled-release agent which comprises a compound which may be synthetic and/or natural, and, optionally, a solvent. The repellent compound may be chosen from the group consisting of essential oils and active ingredients of essential oils.

Brief Summary Text (2):

The present invention relates to an insect repellent device having controlled release of an insect repellent compound and a method for repelling insects from food, tobacco, or other consumable items using the controlled release insect repellent device. The controlled-release insect repellent device is safe for contact with consumable items and may be used in any area from which it is desired to exclude insects. The controlled-release insect repellent device is also environmentally safe.

Brief Summary Text (4):

Compounds which kill insects are known but are often unpleasant for humans to come in contact with. Many have been found to be toxic to humans and to the environment and cannot be placed in direct or indirect contact with food, tobacco, or other consumable items. Furthermore, FDA and EPA approval of new compounds for pest control may take years to obtain. The present invention provides a controlled-release insect repellent device containing compounds which are effective at repelling insects, pleasant for most who come into contact with them, and which do not adversely affect the environment. Many of the insect repellent compounds with which the controlled-release insect repellent device of the present invention may be used are already approved for food and medical usage.

Brief Summary Text (6):

The present invention provides an environmentally-friendly, controlled-release insect repellent device for repelling insects from food, tobacco, or other consumable items which is safe for use with food, including food for infants, and not harmful to humans, animals, or to the environment. The present invention also provides a method for repelling insects from food, tobacco, or other consumable items using the controlled-release insect repellent device. The controlled-release insect repellent device comprises an insect repellent composition contacting a substrate. The controlled-release insect repellent device is prepared by a method comprising applying the insect repellent composition to the substrate. The method for repelling insects comprises placing the controlled-release insect repellent device in an area where insects may be present. The insect repellent composition used in the controlled-release insect repellent device is prepared by mixing a repellent compound, a controlled-release agent and, optionally, a solvent to form a precursor composition which is then applied to a substrate and dried if necessary to form the insect repellent composition. Other additives such as coupling agents,